

java - java-programs/src/com/programs/CircleAreaMain.java - Eclipse IDE

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CircleAreaMain.java

```
20 * Run this program to find area of circle.
8 package com.programs;
9
10 import java.util.Scanner;
11
12 public class CircleAreaMain {
13
14     public static void main(String[] args) {
15
16         System.out.println("Enter the radius
17
18         Circle refCircle = new Circle();
19         refCircle.setRadius(15);
20
21         Scanner in = new Scanner(System.in);
22         float radius = 0;
23
24         try {
25             radius = in.nextFloat();
26             Circle circle = new Circle();
27             Circle anotherRef = circle;
28             circle.setRadius((float)radius);
29             Calculations calculations = new CalculationsImpl();
30             calculations.calculateArea(circle);
31             System.out.println("Area of a circle with radius " + radius + " is : "
32                               + Math.round(calculations.calculateArea(circle)));
33
34             int isRefCircleBigger = refCircle.compareTo(circle);
35             if (isRefCircleBigger > 0) {
36                 System.out
37                     .println("Ref circle with radius 15 is bigger than user created circle with radius : " + radius);
38             }
39             if (isRefCircleBigger < 0) {
40                 System.out.println(
41                     "Ref circle with radius 15 is smaller than user created circle with radius : " + radius);
42             }
43             if (isRefCircleBigger == 0) {
44                 System.out.println(
45                     "Ref circle with radius 15 is same size as the user created circle with radius : " + radius);
46             }
47
48             System.out.println("To String of user created circle" + circle.toString());
49 }
```

Problems Javadoc Declaration Console

<terminated> CircleAreaMain [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (Sep 6, 2022, 6:46:01 PM - 6:46:08 PM)

Enter the radius of a circle:
10
Area of a circle with radius 10.0 is :314
Ref circle with radius 15 is bigger than user created circle with radius :10.0
To String of user created circleCircle [radius=10.0]
To String of ref circleCircle [radius=15.0]
Equals operations result between refCircle and user created circle :false
Equals operations result between anotherRef and user created circle :true